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APPLICATION NO.	FILING DATE	FIRST NAMED INVENT	OR		ATTORNEY	DOCKET NO.	
09/699,670	10/30/00	MATSUO		K	P/107	1-1201	
			7 <u> </u>	EXAMINER			
002352 MM91/1109 COSTROLENK FABER GERB & SOFFEN				GONZALEZT			
1180 AVENUE OF THE AMERICAS NEW YORK NY 10036-8403				ART UNIT	···	PER NUMBER	
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					11/0	9/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

	Application No.	Applicant(s)					
	09/699,670	MATSUO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Julio C. Gonzalez	2834					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by soon - Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may n. a reply within the statutory minimum of the statutory minimum of the statutory minimum of the statutory minimum of the statutory are six (6) Mc tatute, cause the application to become	a reply be timely filed hirly (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	10 September 2001						
	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 8-21 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>8-21</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>30 O<i>ctober 2000</i></u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for don	provisional application has	been received.					
Attachment(s)	nestic priority diluct 35 0.5.	0. 33 120 alid/01 12 1.					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No	) 5) Notice (	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					
LS. Detayland Trademark Office	(o) Officer.						

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#### **DETAILED ACTION**

# **Drawings**

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the cylindrical base member with a wall thickness greater than the wall thickness of the support member as disclosed in claim 12 and the vibration node disclosed in claim 9 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 8-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 8, what is considered a circular path located inside and yet is in the outer section of the disk, how can that be? Is there a way to show the circular path? Is the disk plate? Or a circular path of the cylindrical support member? It seems from figure 1C that the whole disk would vibrate, thus making the circular path all over the vibration disk, so what divides the inner from the outer region?

In claim 11, does the cylindrical base member lies "outside" the circular path, that is, outside the disk vibration plate?

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In claim 13, a groove is defined in the base member, is that the support member?

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Cylindrical base member? Which member?

In claim 19, is the groove located below the outer region of the support member or the disk vibration plate or cylindrical base member?

In order to advance prosecution in the merits, the Prior Art will be applied as best understood by the examiner.

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 8-13 and 17-19 are rejected, AS UNDERSTOOD, under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Yamamoto et al.

Yamamoto et al discloses a piezoelectric acoustic transducer having disk vibration plate 5, a hollow cylindrical support member 3 coupled to the disk 5, a piezoelectric element 6 coupled to the center of the disk 5, a cylindrical base member 2 with a wall thickness greater than the wall thickness of support member 3. Also, a groove 2d is defined in the base member 2 and a damping member 3d is located in the groove 2d (see figure 1).

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6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Claim Rejections - 35 USC § 103

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 14-16 and 20, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto in view of ordinary skill in the art.

Yamamoto et al discloses a piezoelectric acoustic transducer having disk vibration plate 5, a hollow cylindrical support member 3 coupled to the disk 5, a piezoelectric element 6 coupled to the center of the disk 5, a cylindrical base member 2 with a wall thickness greater than the wall thickness of support member 3. Also, a groove 2d is defined in the base member 2 and a damping member 3d is located in the groove 2d (see figure 1).

Yamamoto discloses the claimed invention except for the material of the damping vibrator member. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the damping member softer, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In *re Leshin*, 125 USPQ 416.

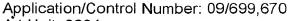
# Response to Arguments

8. Applicant's arguments with respect to claims 8-21 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jcg

November 7, 2001

MOSTOR BANGEZ SEMELE SONO EL CHAMENER

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